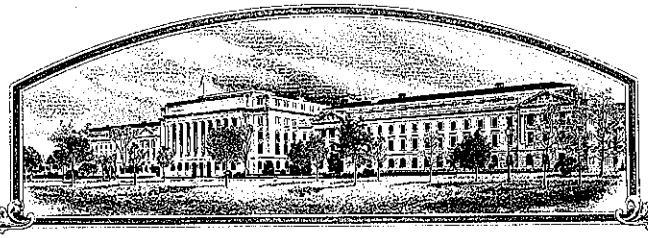
No. 9300211



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Peterson Seed Company, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Baronesse'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of May in the year of our Lord one thousand nine hundred and ninety-six.

Attest:

Marsha A. Stanton

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Dan Glickman

Secretary of Agriculture

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Peterson Seed Company, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.

3. VARIETY NAME
Baronesse

4. ADDRESS *(street and no. or R.F.D. no., city, state, and ZIP)*
7900 E. Highway 101
Shakopee, MN 55378

5. PHONE *(Include area code)*
(612) 445-2606

FOR OFFICIAL USE ONLY

PVPO NUMBER
9300211

FILING Date: May 10, 1993
Time: 1:40 ☐ A.M. ☒ P.M.

FEES RECEIVED
Filing and Examination Fee: $2150.00 + 175.00
Date: 5/10/93 + 5/10/93
Certificate Fee: $ 300.00
Date: 3-20-96

6. GENUS AND SPECIES NAME
Hordeum vulgare

7. FAMILY NAME *(Botanical)*
Graminea

8. CROP KIND NAME *(Common Name)*
Barley

9. DATE OF DETERMINATION
October, 1981

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION *(Corporation, partnership, association, etc.)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Minnesota

12. DATE OF INCORPORATION
April 11, 1985

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Jerome J. Peterson
Peterson Seed Company, Inc.
7900 E. Highway 101
Shakopee, MN 55378
← (612) 445-2606
PHONE *(Include area code)*:

Dr. Dale R. Clark (406) 587-1218
8111 Timberline Drive
Bozeman MT 59715 (406) 586-8247 (fax)

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow INSTRUCTIONS on reverse)*

a. ☒ Exhibit A, Origin and Breeding History of the Variety.
b. ☒ Exhibit B, Novelty Statement.
c. ☒ Exhibit C, Objective Description of Variety.
d. ☒ Exhibit D, Additional Description of Variety.
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office _____.
g. ☒ Filing and Examination Fee ($2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See section 83(a) of the Plant Variety Protection Act.)*
☐ YES *(If "YES," answer items 16 and 17 below)* ☒ NO *(If "NO," skip to item 18 below)*

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☒ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?
☐ YES *(If "YES," through* ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____.)
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES (If "YES," give names of countries and dates)
☐ NO

Germany - 1989, January 30
Denmark - 1989 - January 30
France - 1990 - November 30
} fax August 1993 MAS

Spring 1990 - 1st sale
fax 3-5-95 MAS

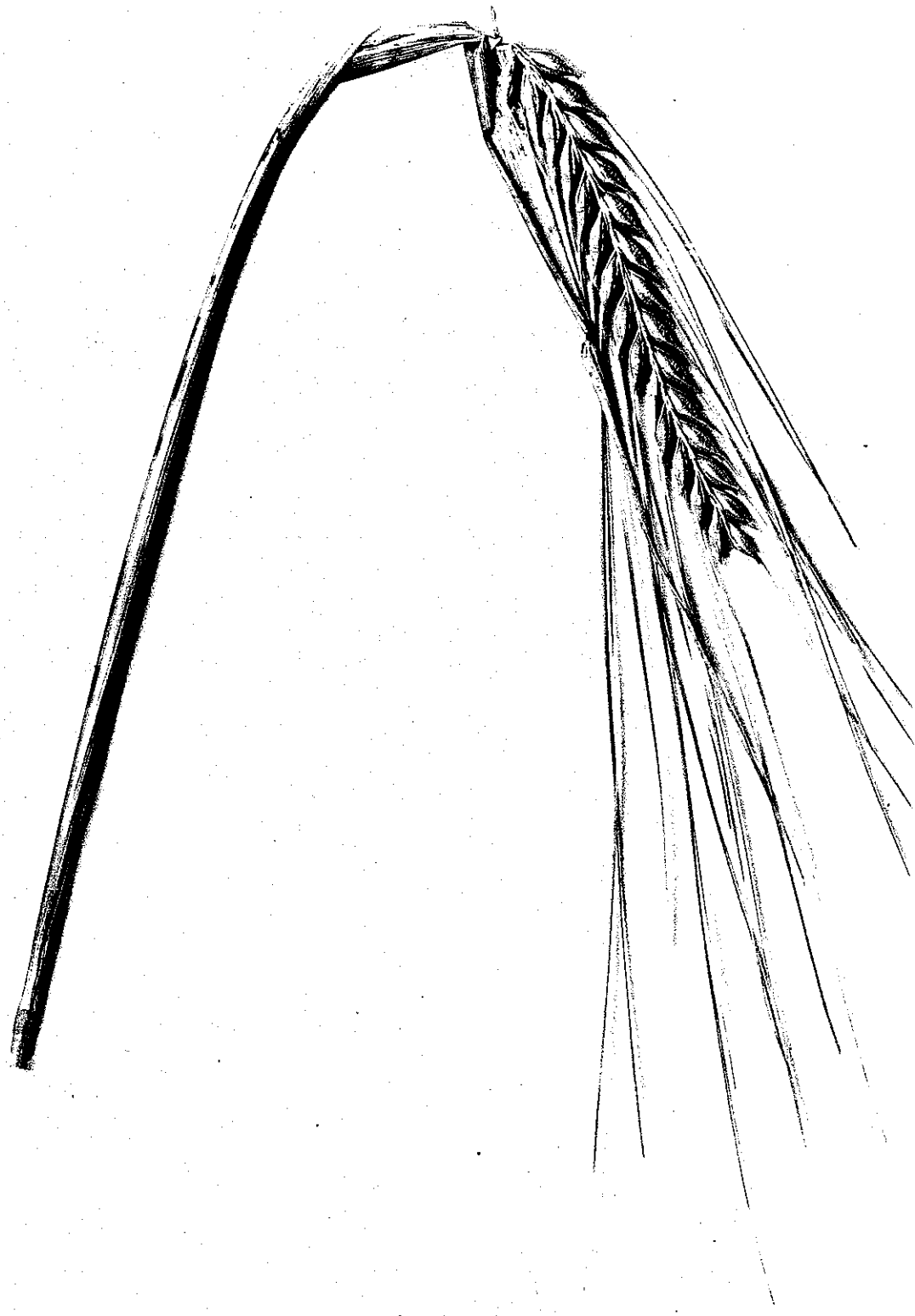
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE
Jerome J. Peterson	President & CEO.	May 3, 1993
SIGNATURE OF APPLICANT *(Owner(s))*	CAPACITY OR TITLE	DATE

9300211



B A R O N E S S E

14.a. Origin and Breeding History

Baronesse is a two-rowed spring barley which was developed from the cross {[(Mentor x Minerva) x mutant of Vada] x [(Carlsberg x Union) x (Opavsky x Salle) x Ricardo]} x (Oriol x 6153 P40).

The cross was made in 1977 by Dr. Gunther Frimmel as an employee of Nordsaat. An F3 row from this cross was selected in 1978 and labeled NS 78054. This selection was yield tested at several locations in Europe in 1979, 1980, and 1981. It was determined that this was a unique line in October of 1981. Spikes were selected for purification and head rows were grown in 1983. Individual rows were harvested in the fall of 1983 and seed from these were planted in row-plots in 1984. Uniform plots were harvested individually. Equal portions of seed from the uniform plots were bulked to form basic seed. The basic seed was planted in 1985. Seed from this production was designated breeders seed and was given the name "Baronesse". Foundation, registered, and certified seed was produced in 1986, 1987 and 1988 respectfully. Certified seed was first released to growers in Germany in the spring of 1989.

In 1991, Peterson Seed Co. of Savage, Minnesota was granted all rights for production, marketing and application for PVP for Baronesse barley in the United States of America (see attached letter from Nordsaat). Baronesse was tested in Washington State University and Montana State University trials in 1988, 1989, 1990, 1991,and 1992. These trials (Tables 1 thru 8) show Baronesse to be a stable and uniform variety in agronomic performance across many locations.

Peterson Seed and Western Plant Breeders formed a marketing agreement with regards to Baronesse in 1991. Breeders seed was sent to WPB by Nordsaat and planted by WPB in the spring of 1991. Production from these fields was harvested as Foundation and Registered seed. This seed was released to WPB's associate seed companies in April of 1992. Certified seed will be sold to growers for the first time in the spring of 1993.

B A R O N E S S E

14.b. Novelty Statement

Baronesse is most similar in appearance to the variety Piroline. Both barleys are two-rowed and both tend to exhibit strong anthocyanin coloration during the grain filling period. However, Baronesse is approximately 3 inches shorter (t = 4.18 with 17 d.f., Table 2.) and on the average Baronesse flowers 2 days later than Piroline (t = 5.79 with 17 d.f., Table 3.). Also, the lateral, sterile florets of Baronesse are extremely reduced in size (the term "deficiens" is use to describe this trait), whereas those of Piroline are large and typical of a two-rowed barley.

14.d. Additional Description of Variety

Baronesse is a standard height, two-rowed, lax headed, spring barley. the most distinguishing characteristic of Baronesse is that it is a "deficiens" barley. The deficiens trait greatly reduces the size of the sterile, lateral florets to such an extent that they appear non-existent. (See pages 4 and 5 of the USDA/ARS Technical Bulletin No. 1224 - "Classification of Barley Varieties grown in the United States and Canada in 1958".)

14.e. Statement of Ownership

Peterson Seed Company, Inc. has been granted all rights for production, marketing and application for Plant Variety Protection on the variety Baronesse in the United States of America by Nordsaat, a German based company that developed the variety. (See the attached letter)

Baronesse

FORM GR-470-5 (11-1-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED. OMB NO. 40-R3712

EXHIBIT C *(Barley)*

OBJECTIVE DESCRIPTION OF VARIETY

BARLEY *(HORDEUM VULGARE)*

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Peterson Seed Company

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*
7900 E. Highway 101
Shakopee, MN 55378

FOR OFFICIAL USE ONLY
PVPO NUMBER 9300211
VARIETY NAME OR TEMPORARY DESIGNATION Baronesse

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (i.e. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. GROWTH HABIT:

[1] 1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER [3] Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE 3 = ERECT

2. MATURITY (50% Flowering):

[2] 1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)

[1] No. of days *Earlier* than ..... [8]
[3] No. of days *Later* than ..... [5]
1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON 5 = PIROLINE 6 = PRIMUS 7 = UNITAN

3, PLANT HEIGHT (From soil level to top of head):

[3] 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest)

[0][5] Cm. *Shorter* than ..... [5]
[0][5] Cm. *Taller* than ..... [8]
1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON 5 = PIROLINE 6 = PRIMUS 7 = UNITAN 8= WB Medallion

4. STEM:

[0] 1 ARPA 2 Sept 1993 per Letter Exertion *(Flag to spike at maturity):* 1 = 0 - 3 cm. 2 = 3 - 10 cm. 3 = 10 - 15 cm. [1] Anthocyanin: 1 = ABSENT 2 = PRESENT

[0][5] NO. OF NODES (Originating from node above ground)

[1] Collar Shape: 1 = CLOSED 2 = V-SHAPED 3 = OPEN 4 = MODIFIED CLOSED OR OPEN [1] Shape of Neck: 1 = STRAIGHT 2 = SNAKY 3 = OTHER (Specify) _____

5. LEAF:

[1] Basal leaf sheath *(seedling):* 1 = GLABROUS 2 = PUBESCENT [2] Position of flag leaf *(at boot stage):* 1 = DROOPING 2 = UPRIGHT

[3] Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 3 = WAXY [1][0] MM. WIDTH (First leaf below flag leaf)

[2][2] CM. LENGTH (First leaf below flag leaf) [2] Anthocyanin in leaf sheath: 1 = ABSENT 2 = PRESENT

6. HEAD:

[1] Type: 1 = TWO-ROWED 2 = SIX-ROWED [1] Density: 1 = LAX 2 = ERECT (Not dense) 3 = ERECT (Dense)

[2] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) _____ [2] Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 3 = WAXY

[1] Lateral Kernels Overlap: 1 = NONE 2 = AT TIP 3 = 1/4 - 1/2 OF HEAD [3] Rachis *(Hair on edge):* 1 = LACKING 2 = FEW 3 = COVERED

7. GLUME:

[3] Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA 3 = MORE THAN 1/2 OF LEMMA [3] Hairs: 1 = NONE 2 = SHORT 3 = LONG

[4] Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED

[2] Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES 3 = MORE THAN EQUAL TO LENGTH OF GLUMES

[3] Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

Baronesse

FORM GR-470-5 (Reverse) 9300211

8. LEMMA:

[5] Awn: 1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS, AWNLESS ON LATERAL ROWS 3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS 4 = SHORT (less than equal to length of spike) 5 = LONG (longer than spike) 6 = HOODED

[3] Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

[1] Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS

[1] Hair: 1 = ABSENT 2 = PRESENT

[1] Shape of base: 1 = DEPRESSION 2 = SLIGHT CREASE 3 = TRANSVERSE CREASE

[2] Rachilla Hairs: 1 = SHORT 2 = LONG

9. STIGMA:

[2] Hairs: 1 = FEW 2 = MANY

10. SEED:

[2] Type: 1 = NAKED 2 = COVERED

[1] Hairs on Ventral Furrow: 1 = ABSENT 2 = PRESENT

[4] Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.) 4 = MIDLONG TO LONG (9.0 - 10.5 mm.) 5 = LONG (10.0 mm.)

[4] Wrinkling of hull. 1 = NAKED 2 = SLIGHTLY WRINKLED 3 = SEMIWRINKLED 4 = WRINKLED

[1] Aleurone Color: 1 = COLORLESS (White or Yellow) 2 = BLUE

[0][1] PERCENT ABORTIVE

[4][7] GMS. PER 1000 SEEDS

11. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] SEPTORIA	[0] NET BLOTCH	[0] SPOT BLOTCH	[0] POWDERY MILDEW
[0] LOOSE SMUT	[0] BACTERIAL BLIGHT	[0] COVERED SMUT	[0] FALSE LOOSE SMUT
[0] STEM RUST	[0] LEAF RUST	[0] SCAB	[0] SCALD
[0] AY	[0] BSMV	[0] BYDV	[0] OTHER (Specify)

12. INSECT: (0 = Not tested, 1 = Susceptible 2 = Resistant)

[0] GREEN BUG	[0] ENGLISH GRAIN APHID	[0] CHINCH BUG	[0] ARMYWORM
[0] GRASS HOPPERS	[0] CERIAL LEAF BETTLE	[0] OTHER (Specify)	

HESSIAN FLY RACES: [0] GP [0] A [0] B [0] C [0] D [0] E [0] F [0] G

13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[0] DDT [0] OTHER (Specify)

14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Pirolene	Seed size	Pirolene
Leaf size	Pirolene	Coleoptile elongation	Pirolene
Leaf color	Pirolene	Seedling pigmentation	Pirolene
Leaf carriage	Pirolene		

REFERENCES: The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61 - 84.
3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

B A R O N E S S E

Table 1. Yield (in bushels/acre) of Baronesse and check varieties grown in Montana State University trials.

		Baronesse	Pirolene	Hector	Gallatin	Harrington
1991						
Dryland -	Havre	99	92	105	90	85
	Sidney	81	60	61	73	62
	Huntley	100	82	83	90	88
	Conrad	108	97	93	100	96
	Bozeman	81	67	67	72	60
	avg	94	80	82	85	78
Irrigated -	Kalispell	110	98	102	96	116
	Sidney	76	56	56	68	56
	Bozeman	112	89	94	99	107
	Huntley	110	91	84	111	100
	Conrad	107	79	96	95	84
	avg	103	83	86	94	93
1992						
Dryland -	Sidney	106	91	102	94	99
	Moccasin	88	79	77	83	76
	Huntley	124	100	93	125	121
	Bozeman	134	118	120	109	120
	avg	113	97	98	103	104
Irrigated -	Kalispell	124	91	106	108	95
	Sidney	152	102	76	116	122
	Huntley	126	101	96	130	113
	Bozeman	160	138	142	138	144
	avg	140	108	105	123	118
	2 year AVG.	111	91	92	100	97

BARONESSE

Table 2. Plant height (in inches) of Baronesse and check varieties grown in Montana State University trials.

		Baronesse	Pirolene	Hector	Gallatin	Harrington
1991						
Dryland -	Havre	31	36	35	33	35
	Sidney	29	32	31	31	30
	Huntley	31	34	34	34	36
	Conrad	34	39	39	36	34
	Bozeman	32	32	35	34	32
	avg	31	35	35	34	33
Irrigated -	Kalispell	37	41	40	37	39
	Sidney	30	34	30	33	32
	Bozeman	33	37	38	37	36
	Huntley	36	38	40	38	39
	Conrad	31	35	37	36	36
	avg	33	37	37	36	36
1992						
Dryland -	Sidney	28	31	33	29	28
	Moccasin	30	32	33	31	30
	Huntley	31	34	37	35	34
	Bozeman	28	32	33	28	30
	avg	29	32	34	31	31
Irrigated -	Kalispell	25	26	30	27	26
	Sidney	35	36	33	36	36
	Huntley	35	38	38	39	38
	Bozeman	33	37	35	35	34
	avg	32	35	34	34	33
	2 year AVG.	32	35	35	34	34

B A R O N E S S E

Table 3. Heading date (from Jan. 1) of Baronesse and check varieties grown in Montana State University trials.

		Baronesse	Pirolene	Hector	Gallatin	Harrington
1991						
Dryland -	Havre	175	174	175	173	176
	Sidney	171	171	170	170	172
	Huntley	168	167	167	166	169
	Conrad	182	178	179	176	182
	Bozeman	185	185	185	185	185
	avg	176	175	175	174	177
Irrigated -	Kalispell	172	170	171	171	171
	Sidney	170	169	169	168	170
	Bozeman	184	185	183	183	184
	Huntley	168	165	167	168	168
	Conrad	181	177	178	177	181
	avg	175	173	174	173	175
1992						
Dryland -	Sidney	173	168	173	170	172
	Moccasin	171	168	171	170	171
	Huntley	161	160	159	159	162
	Bozeman	165	164	164	165	165
	avg	168	165	168	166	167
Irrigated -	Kalispell	160	157	159	158	160
	Sidney	175	171	172	172	175
	Huntley	161	159	160	160	162
	Bozeman	171	170	170	170	171
	avg	167	164	165	165	167
	2 year AVG.	172	170	171	170	172

B A R O N E S S E

Table 4.
Yield in lbs/ac of Baronesse and check varieties grown in Washington State University Trials

		Baronesse	Steptoe	Harrington	Camelot	Klages
1988						
	Pullman	7022	5894	-	-	-
	Royal Slope	6288	5760	-	-	-
	mean	6566	5827	-	-	-
1989						
	Pullman	5669	5112	-	-	-
	Royal Slope	6370	6667	-	-	-
	Lind	2304	2106	-	-	-
	mean	4781	4646	-	-	-
1990						
	Pullman(1)	7118	6758	6024	5588	5626
	Pullman(2)	4390	4790	4392	3528	4195
	Royal Slope	6505	7315	5938	5658	5548
	Lind	1824	1742	1535	1430	1406
	Connell	2328	2880	2246	2232	2141
	Davenport	1157	1051	941	811	648
	Pomeroy	3202	1077	2933	2592	2203
	Walla Walla	3643	4219	3379	3014	2616
	mean	3771	3979	3424	3107	3085
	Grand mean	4448	4417			

B A R O N E S S E

Table 5.
Plant height in inches of Baronesse and check varieties grown in Washington State University Trials

		Baronesse	Steptoe	Harrington	Camelot	Klages
1988						
	Pullman	35	36	-	-	-
	Royal Slope	37	39	-	-	-
	mean	36	38	-	-	-
1989						
	Pullman	31	31	-	-	-
	Royal Slope	38	40	-	-	-
	Lind	21	26	-	-	-
	mean	30	32	-	-	-
1990						
	Pullman(1)	42	44	35	44	44
	Pullman(2)	32	34	40	31	41
	Royal Slope	37	38	40	40	41
	Lind	19	19	20	20	19
	Connell	21	32	25	23	29
	Davenport	24	28	21	22	23
	Pomeroy	34	37	31	33	30
	Walla Walla	35	38	39	39	39
	mean	31	34	32	32	33

B A R O N E S S E

Table 6.
Heading Date of Baronesse and check varieties grown in Washington State University Trials

		Baronesse	Steptoe	Harrington	Camelot	Klages
1988						
	Pullman	6/22	6/17	-	-	-
	Royal Slope			-	-	-
				-	-	-
1989						
	Pullman	6/19	6/14	-	-	-
	Royal Slope			-	-	-
	Lind			-	-	-
				-	-	-
1990						
	Pullman(1)	6/15	6/9	6/6	6/13	3/17
	Pullman(2)					
	Royal Slope					
	Lind					
	Connell					
	Davenport					
	Pomeroy					
	Walla Walla					
	mean					

B A R O N E S S E

Table 7.
Lodging in Percent of Baronesse and check varieties grown in Washington State University Trials

		Baronesse	Steptoe	Harrington	Camelot	Klages
1988						
	Pullman	80	68	-	-	-
	Royal Slope	4	16	-	-	-
	mean	42	42	-	-	-
1989						
	Pullman	0	0	-	-	-
	Royal Slope	70	62	-	-	-
1990						
	Pullman(1)	2	12	0	12	8
	Pullman(2)	0	0	0	0	0
	Royal Slope	0	4	2	48	34
	Lind	-	-	-	-	-
	Connell	-	-	-	-	-
	Davenport	-	-	-	-	-
	Pomeroy	30	10	0	20	0
	Walla Walla	0	90	10	0	50
	mean	8	29	3	16	23

B A R O N E S S E

Table 8.
Test weight in pounds per bushel of Baronesse and check varieties grown in Washington State University Trials

		Baronesse	Steptoe	Harrington	Camelot	Klages
1988						
	Pullman	53.4	47.9	-	-	-
	Royal Slope	56.3	51.8	-	-	-
	mean	54.9	49.9	-	-	-
1989						
	Pullman	54.9	50.1	-	-	-
	Royal Slope	54.4	49.9	-	-	-
	Lind	50.5	47.3	-	-	-
	mean	53.1	49.1			
1990						
	Pullman(1)	54.9	49.6	54.6	52.2	51.8
	Pullman(2)	53.9	50.0	53.9	51.3	52.8
	Royal Slope	50.6	50.2	55.7	51.0	52.6
	Lind	49.9	45.9	51.8	50.2	48.2
	Connell	51.5	47.4	53.7	50.4	49.8
	Davenport	40.7	30.8	39.3	34.4	38.6
	Pomeroy	40.2	42.3	42.1	41.8	37.4
	Walla Walla	48.0	42.9	45.9	47.1	44.6
	mean	48.7	44.9	49.6	47.3	47.0

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Ihr Zeichen: Ihre Nachricht vom: Unser Zeichen: v.Rh/Bu Datum: May 14, 1991

TO WHOM IT MAY CONCERN:

The variety Baronesse Barley for which Plant Variety Protection is sought was developed by Nordsaat Saatzucht GmbH.
By agreement between Nordsaat and Peterson Seed Company, P.O. Box 346, Savage, Minnesota, 55378 U.S.A., Peterson Seed Company has been given all rights for production, marketing and application for Plant Variety Protection (or its equivalent) in the United States of America and Canada.

The variety Baronesse has never been marketed in the United States or Canada. Baronesse has been registered for marketing in Germany and Denmark in 1989 and in France in 1990.

Sincerely

" N O R D S A A T "
Saatzuchtgesellschaft mbH

G.i.A. Rhade
W. v. Rhade